Adding a Reduced QD Criteria Storage Unit to your ESS Database

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1. Determining the type of Reduced QD Criteria Storage Unit

A. It is critical that you verify the Reduced QD authorization for the type of storage unit you intend to apply the criteria to. Refer to DDESB TP-15, Table AP1-4. **Magazines (Earth-Covered and Aboveground) and Containers with Reduced News and/or Reduced QD.**

2. Classification of a Reduced QD Criteria Storage Unit

A. Reduced QD Criteria storage units are not real property in the majority of cases. The units are considered organizational equipment. Therefore you will not have an RPUID or accountability of it within the RPI data provided by the installation DPW.

B. This guide will provide the necessary steps to follow allowing you to properly input these units into your database.
3. Adding a Reduced QD Criteria Storage Unit to the ESS Database

A. While in your ESS database, you will note in the upper right side of the tool bar a set of tools to the right of a heading called Editor.

B. To the right of a heading called Editor, click on the green plus sign +.

C. This opens up the Template window to the far right of the image below. Make sure you have the Structure_existing_area highlighted under the Map layers window on the far left side.

D. In the Template window below click on the drop down box and select Simple Polygon.
E. In the Template window below you will see four options to assist you in configuring your new structure. Start with clicking on the Polygon tab if it hasn’t already defaulted to that tab.

F. The Polygon tab has a drop down option called Add to Layer, click on the drop down button and then select the layer called structure_existing_area. This layer will allow you to keep all structure on the installation within one layer. This is important because you will want this new facility or unit included within the QD analysis.
G. The **Polygon** tab has a couple of radio buttons in the mid-section. Click on the radio button called **Mouse Clicks**. This makes placement of the new polygon representing your storage unit easier to place on the image.

H. At this point you need to find the location to place your storage unit. You can do this by clicking anywhere in the installation image, then go up to the tool bar in the far left and click on the magnifying glass. Move your cursor back to the image and you will see that your cursor has changed to the magnifying glass. Zoom into the location where placement is desired.
I. In the image below you will see a command button named Add in the upper right. If you move your cursor over the Add button you will see an infotip pop up. You are going to click on the Add button and move your cursor over the image displayed in ESS to the location that you want to place your storage unit.

J. Watch your cursor closely and you will see it has changed to a red X.
K. This is where your cursor may have fun at your expense. You are going to take the cursor and click once to start the placement. You will do this same step for each corner of the ARMAG. Do not worry about the distance you see while laying out the polygons sides at this point (Refer to image on left)! When the final corner has been completed you will see the polygon change as seen in the image below right.

![Image of polygon placement](image.png)

L. Now you need to resize the polygon to accurately represent the 7X7X7 ARMAG. In the Editor tool bar, click on the Resize button. Your cursor will change to a cross. Move the cross over the polygon you just placed on the image and click on the polygon.
L. Upon clicking on the polygon the **Resize Graphic** window appear and it will zoom down on the polygon you placed as seen below.
M. In the Resize Graphic window you can adjust the Depth (Length) and Width. In this case, change the Depth (Length) and Width to 7.0. You will notice in the image below it has changed the size of the ARMAG outline. Don't worry about the blue background. As soon as you click on OK it will adjust automatically.

**NOTE:** In the Resize Graphic window above you have several options to assist you in precisely positioning your facility (polygon). You can rotate left or right and then shift up, down, left or right.

**NOTE:** Since this unit is not being tracked as real property it is highly advisable to just use the facility number assigned by the program. Example: 4551
N. In the **Template window** below click on the tab called **Features**.

![Template window with Features tab selected]

O. In the **Template window** below manually type in the **Facility Number, Facility ID and a description of the facility/unit** assigned by the program in the previous steps. In this case 4551, the description you can come up with.

![Template window with Facility Number, Facility ID, and Description]

**NOTE:** The **ID Seed** is in its simplest form is an identity column that creates a numeric sequence for unique identification of your data records. The **ID Increment** is the amount that the identity column increases for each new row you input.

**Do not mess with these two boxes.**
P. In the Template window, click on the Attributes tab and then click on the Type Code drop down button as seen below.

NOTE:
If you are placing a Reduced Criteria Magazine as approved by DDESB and the TP-15, AP1-4 then your Type Code will be RCM.

If you are placing any other portable magazine other than what DDESB has approved per TP-15, AP1-4 then your Type Code will be AGM.

Q. In the Select a Facility Type Code window and given the information in the notes above, select the appropriate Type code. This guide will indicate the use of the RCM Type code. Click OK when done.
R. You are returned to the Template window.

NOTE: There are five new drop down boxes that need to correctly filled in.

S. In the Construction Type drop down box select Not Applicable.

T. In the RCM Type drop down box select Advanced EOD Magazine or other type as required.

U. In the Open Location drop down box select No.

V. In the Reinforced Openings drop down box select Yes.

W. In the Combustible Construction drop down box select No.
X. In the **Template** window below click on the tab called **Missions**.

Y. In the **Template** window click on the **Category Code** drop down box and select **42510** for all portable magazines.

Z. In the **Template** window below click on the **Explosives** tab.
AA. In the **Template** window below click on **Add HC/D**.

![Template window](image)

BB. In the **Select the Hazard class/divisions to add for this facility** window below click each **HC/D** required for this facility. Click **OK** when done.

![Select the Hazard class/divisions](image)

**CAUTION:** Be sure and reiterate to the owner that for reduced QD criteria to be effective the items must be stored inside the pumice liners accompanying the storage unit.
CC. In the Template window click on each one of the HC/Ds and add the appropriate amounts under the Quantity column.

DD. In the Template window below click on the HFD xx box and enter the distance in feet as required.

EE. In the Template window above click on the Fragmenting Item box and enter Yes or No.
FF. To close the Editor Window on the far right just click one time on the green + button. The editor window will close and enlarge your installation image view window.
<table>
<thead>
<tr>
<th>QD Criteria for Various Portable Magazines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>As a PES:</strong></td>
</tr>
<tr>
<td>Golan 5 -- IB = 30ft, PTR = 20ft, IL = 10ft, IM = 0 to other Golans, and K1.25 to all other PESs</td>
</tr>
<tr>
<td>Golan 10 -- IB = 3ft, PTR = 3ft, IL = 3ft, IM = 0</td>
</tr>
<tr>
<td>Golan 15 -- IB = 4ft, PTR = 4ft, IL = 4ft, IM = 0</td>
</tr>
<tr>
<td>NABCO SY-23 -- IB = 15ft, PTR = 15ft (not specified in DDES approval), IL = 5 ft (DDES approval said from door only, but apply to all directions), IM = 0</td>
</tr>
<tr>
<td>NABCO SY-50 -- IB = 20ft from door, 20ft from the sides, 5ft from the rear (see funky arc figure in approval letter), PTR = 20ft from door, 20ft from the sides, 5ft from the rear (not specified in DDES approval), IL = 15ft from door, 15ft from the sides, 5ft from the rear, IM = 0</td>
</tr>
<tr>
<td>Advance EOD Storage Magazine -- IB = 10ft, PTR/IL = 10ft (not specified in DDES approval), IM = K6 (not specified in DDES approval)</td>
</tr>
<tr>
<td>EOD RSL -- IB = 30ft (not specified in DDES approval, but shown in TP-15), PTR/IL = 30ft (not specified in DDES approval), IM = K6 (not specified in DDES approval)</td>
</tr>
<tr>
<td><strong>As an ES:</strong></td>
</tr>
<tr>
<td>Golan 5 -- IM = 0 from all PESs that totally contain blast hazards (I'd read &quot;blast hazards&quot; as explosives effects in light of later language for the Golan 10 and 15), and IM = K6 from all other PESs</td>
</tr>
<tr>
<td>Golan 10 -- IM = 0 from all PESs that totally contain all explosives effects, and IM = K6 from all other PESs</td>
</tr>
<tr>
<td>Golan 15 -- IM = 0 from all PESs that totally contain all explosives effects, and IM = K6 from all other PESs</td>
</tr>
<tr>
<td>NABCO SY-23 -- IM = 0 from all PESs that totally contain all explosives effects, and IM = K6 from all other PESs</td>
</tr>
<tr>
<td>NABCO SY-50 -- IM = 0 from all PESs that totally contain all explosives effects, and IM = K6 from all other PESs</td>
</tr>
<tr>
<td>Advance EOD Storage Magazine -- IM = K11 from all PESs (not specified in DDES approval)</td>
</tr>
<tr>
<td>EOD Ready Service Locker -- IM = K11 from all PESs (not specified in DDES approval)</td>
</tr>
</tbody>
</table>